Ontario Ministry of Northern Development and Mines

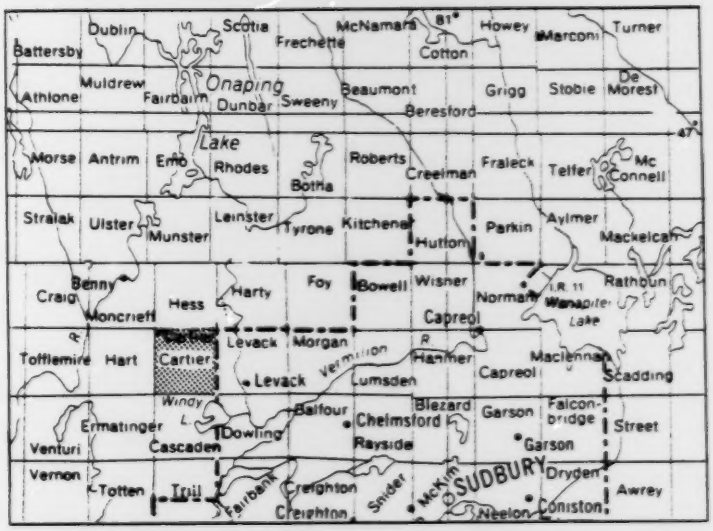
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 474

CARTIER TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale: 1:1 013 760 or 1 inch=16 miles

CANADA ONTARIO Mineral Development Exploitation Minerale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-00702/

NTS Number 41 I/11

Mining Claim Map Number M.704

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1989: Cartier Township, Ontario Geological Survey, Geological Data Inventory Folio 474, compiled by the staff of the Resident Geologist's Office, Sudbury; 16 pages and 2 Maps.

Original Compilation by: Lacey, J. Kerry, March, 1988

Date	Page Revised	Revised by

Date	Page Revised	Revised by

CARTIER TOWNSHI

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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(Aerial Photographs Index)

ACCOMPANYING MAPS

Property Location Map 1

Exploration Data Map 1

Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	K.L.
2	Assessment Files Research Office, Toronto	N.A.	K.L.
3	ODM General Index; 9 Volumes	Yes	K.L.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	K.L.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	K.L.
6	ODM Industrial Mineral Reports	Yes	K.L.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	K.L.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	K.L.
9	Newspaper Clippings File	No	K.L.
10	GSC Index to Publications	Yes	K.L.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	K.L.
12	OGS Index Maps	Yes	K.L.
13	Source Mineral Deposit Records (O.G.S.)	No	K.L.
14	Author - Subject Articles File	Yes	K.L.
15	Miscellaneous Papers: ODM & OGS	Yes	K.L.
16	ODM Geological Circulars: OGS Study Series	Yes	K.L.
17	ODM Preliminary Reports: ODM Bulletins	Yes	K.L.
18	ODM – OGS Open File Reports	Yes	K.L.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	K.L.
20	OGS Aggregate Resources Inventory Papers	Yes	K.L.
21	OGS Mineral Potential Maps	Yes	K.L.
22	Theses on File, Sudbury	Yes	K.L.
23	Aerial Photographs on file, Sudbury	Yes	K.L.

METALS AND MINERALS REFERENCES LIST

- Δ anh. . . . . .Anhydrite
- Δ ank. . . . . .Ankerite
- Δ anna . . . . . Annabergite
- Δ ap. . . . . .Apatite
- Δ arg . . . . . Argentite
- Δ As . . . . . .Arsenic
- Δ asp . . . . . .Arsenopyrite
- Δ asb . . . . . .Asbestos
- Δ ba. . . . . .Barite
- Δ be. . . . . .Beryl
- Δ Bi. . . . . .Bismuth
- Δ bn . . . . . .Bornite
- Δ bran . . . . . .Brannerite
- Δ bruc . . . . . .Brucite
- Δ Cd . . . . . Cadmium
- Δ calc. . . . . .Calcite
- Δ carb . . . . . .Carbonate
- Δ cel . . . . . .Celestite
- Δ cc. . . . . .Chalcocite
- Δ cp. . . . . .Chalcopyrite
- Δ ch. . . . . .Chert
- Δ clay . . . . . .Clay
- Δ Co . . . . . Cobalt
- Δ cob. . . . . Cobaltite
- Δ cb. . . . . .Columbite
- Δ Cu . . . . . .Copper
- Δ cor . . . . . Corundum
- Δ dol . . . . . Dolomite
- Δ ep. . . . . Epidote
- Δ ery . . . . . Erythrite
- Δ fel . . . . . .Feldspar
- Δ fl . . . . . .Fluorite (flurospar)
- Δ fu. . . . . .Fuchsite
- Δ gn. . . . . .Galena
- Δ gt. . . . . .Garnet
- Δ goe . . . . . .Goethite
- Δ Au . . . . . Gold
- Δ gf. . . . . .Graphite
- Δ gl . . . . . Gravel
- Δ gyp. . . . . .Gypsum
- Δ hem . . . . . Hematite
- Δ il . . . . . .Ilmenite
- Δ Fe . . . . . .Iron
- Δ IF. . . . . Iron Formation
- Δ jas . . . . . Jasper
- Δ kaol . . . . . .Kaolinite (kaolin)
- Δ ky . . . . . Kyanite
- Δ Pb . . . . . Lead
- Δ lim . . . . . Limonite
- Δ Li. . . . . Lithium
- Δ mgst . . . . . Magnesite
- Δ mag . . . . . .Magnetite
- Δ mc . . . . . Malachite
- Δ Mn . . . . . Manganese
- Δ mb . . . . . .Marble
- Δ mar. . . . . Marcasite
- Δ ma . . . . . .Marl
- Δ mi . . . . . Mica
- Δ ml . . . . . .Millerite
- Δ mo . . . . . Molybdenite
- Δ Mo . . . . . .Molybdenum
- Δ mon . . . . . Monazite
- Δ ne. . . . . Nephelite (nepheline)
- Δ nc. . . . . .Niccolite
- Δ Ni. . . . . Nickel
- Δ Nb . . . . . .Niobium
- Δ Pd . . . . . .Palladium
- Δ peat . . . . . .Peat
- Δ pent . . . . . Pentlandite
- Δ Pt. . . . . .Platinum
- Δ py . . . . . .Pyrite
- Δ pyl . . . . . Pyrochlore
- Δ pyrl . . . . . .Pyrolusite
- Δ po . . . . . .Pyrrhotite
- Δ q . . . . . Quartz
- Δ qcv . . . . .Quartz carbonate vein
- Δ ra. . . . . .Radioactive minerals
- Δ RE . . . . . .Rare Earths
- Δ sd. . . . . Sand
- Δ sgl . . . . . Sand and gravel
- Δ ss. . . . . .Sandstone
- Δ scap . . . . . Scapolite
- Δ shee . . . . . .Scheelite
- Δ serp . . . . . Serpentine
- Δ sh. . . . . .Shale
- Δ sid . . . . . Siderite
- Δ si . . . . . .Silica
- Δ Ag . . . . . .Silver
- Δ sl . . . . . Slate
- Δ sm . . . . . .Smaltite
- Δ sod. . . . . Sodalite
- Δ spec . . . . . Specularite
- Δ sp. . . . . .Sphalerite
- Δ spd. . . . . .Spodumene
- Δ staur . . . . . .Staurolite
- Δ stib. . . . . Stibnite
- Δ st . . . . . .Stone
- Δ talc. . . . . .Talc
- Δ Te . . . . . Tellurium
- Δ td. . . . . Tetrahedrite
- Δ th. . . . . .Thorite
- Δ Th . . . . . .Thorium
- Δ thuc . . . . . Thucholite
- Δ ti . . . . . Titanite
- Δ Ti. . . . . Titanium
- Δ tour . . . . . .Tourmaline
- Δ trap . . . . . .Trap rock
- Δ W. . . . . Tungsten
- Δ uran . . . . . Uraninite
- Δ U . . . . . .Uranium
- Δ verm . . . . . .Vermiculite
- Δ Y . . . . . Yttrium
- Δ Zn . . . . . .Zinc
- Δ zr. . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

CARTIER TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks

GDIF FORM NO. 1

4 CARTIER TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Canadian Radium Corporation Ltd. (Levack 0014-D1)							55												
2	Falconbridge Nickel Mines Ltd. (Cartier 0011-A1)				56 58 60 61															
3	Jay Bee Landry Exploration Ltd (Cartier 0011-C1)	66						66												
4	Pacemaker Mines and Oils Ltd. (Cartier 0011-B1)							58												
5	Taylor, S. (Cartier 0010)				55															

GDH FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Falconbridge Nickel Mines Ltd.	C-XC-1	1956	-	90	0	240'	py	
1		C-XC-2	1958	N80W	50	0	224'		
2		C-XC-1	1958	N80W	45	0	256'		
2		C-XC-2	1960	-	90	0	110'		
3		C-XC-1	1960	-	90	0	130'		
4		C-XC-1	1961	-	90	0	240'	py	
5	Taylor, S.	1	1955	S44W	45	0	125'	py, po, cp	
5		2	1955	S44W	45	0	75.4'	sulphides	
5		3	1955	N44E	45	0	84'	py, po, cp	
5		4	1955	S44W	60	0	113'	py, po, cp	
5		5	1955	S50W	45	0	60'	py, po, cp	
6		6	1955	S50W	68	0	99'	py, po, cp	
6		7	1955	?	50	0	100'	py, po, cp	
6		14	1955	N51E	70	0	297'		
6		15	1955	N42E	55	14'	303'	py, po	
6		16	1955	-	90	8'	300'	py, po, cp	
7		8	1955	S44W	70	0	117'	py, cp	
7		9	1955	N44E	45	0	101.4'		
7		11	1955	?	45	0	317'	py, cp, po	
8		10	1955	N44E	45	0	20'		
8		13	1955	S56W	45	0	373'	py, cp, po	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

CARTIER TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

ODM GENERAL INDEX SEARCH

Words searched:

BENNY AREA
CANADIAN RADIUM CO., LTD.
CARHESS LAKE
CARTIER -STRALAK AREA
CARTIER TOWNSHIP
DIVISION LAKE
FALCONBRIDGE NICKEL MINES LTD.
HIGHWAY 144 (CARTIER)
JAY BEE LANDRY EXPLORATION & MINING CO. LTD
PACEMAKER MINES & OILS LTD.
PUMPHOUSE CREEK
STRALAK AREA

Index Volume	Listing:	Report Volume	Part	Page
1	CARTIER, Cartier Tp.			
	Diabase dikes near	1	--	76
	Gravel plain and terrace	14	3	106
		18	1	287
	Limestone near, for burning	1	--	94
	Magnetite near,	1	--	87
	Section from, to Manitoba	22	1	230-231
1	CARTIER TP., Sud.			
	Terrace in, altitude	14	3	103
2	CARTIER, Cartier tp.			
	Iron claims near, notes,	I.O.		208
	Pleistocene deposits,	29	1	207
	ballast pits	32	2	122-128
3	CARTIER, Cartier tp.			
	Prospectors' classes	36	1	70
3	CARTIER - STRALAK AREA, Sud.			
	Geology and mineral deposits			
	Report on, by F. F. Osborne	38	7	52-68
8	BENNY AREA, SUDBURY DIST.			
	Summary of field work, 1973,			
	by K. D. Card & D. G. Innes	MP56		111-117
	Summary of field work, 1974			
	by K. D. Card & D. G. Innes	MP59		132-138
9	CANADIAN RADIUM CORP. LTD.			
	Levack Tp., Sudbury Dist.	MP96		88
9	CARTIER TP., SUDBURY DIST.			
	Geology (quaternary) of the Sudbury Basin area	GR181		
	Sand & Gravel	GR181		43,44,66

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Burwasser, G. J.	1979	Quaternary Geology of the Sudbury Area	OGS Map 2397	1:50 000
Card, K. D.	1965-67	Cartier Sheet	Map P.287	1" = 2 miles
	1966-67	Sudbury Mining Area	Map 2170	1" = 1 mile
Card, K. D. & Innes, D. G.	1976	Benny Area, Cartier-Carhess Lake Sheet	Map P.1111	1" = 1/4 mile
	1974	Benny Area, Hess Lake Sheet	Map P.949	1" = 1/4 mile
	1980	Geneva Lake	OGS Map 2435	1" = 1/2 mile
Card, K. D., Lumbers, S.B.	1974-75	Sudbury-Cobalt Geological Compilation (revised)	OGS Map 2361	1" = 4 miles
Cooke, H. C.	1945	Chelmsford-Sudbury District	Map 871A	1" = 1 mile
Dressler, B. O.	1984	Sudbury Geological Compilation	Map P.2491	1:50 000
	1983	Sudbury Mining Area - West part	Map P.2602	1:50 000
		GEOPHYSICAL MAPS		
Gupta, V. K.	1981	Bouguer Gravity & Generalized Geological Map of the Sudbury-Onaping Lake Area	OGS Map P.2482	1:100 000
ODM - GSC	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury	Map P.1610	1:250 000
	1965	Aeromagnetic Map - Cartier	Map 1524-G	1" = 1 mile
	1965	Aeromagnetic Map - Chelmsford	Map 1518-G	1" = 1 mile
	1965	Aeromagnetic Map - Sudbury Sheet	Map 7067-G	1:100 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL PLEISTOCENE TERRAIN ENGINEERING		
Burwasser, G. J.	1972	Quaternary Geology and Industrial Mineral Resources of the Sudbury Area (West Part)	Map P.751	1:50 000
E.M.R.	1975	Topographic Map - Cartier	41 I/12	1:50 000
		Topographic Map - Chelmsford	41 I/11	1:50 000
Gartner, J. F.	1980	N.O.E.G.T.S. Data Base Map, Cartier	Map 5000	1:100 000
	1980	N.O.E.G.T. Study 94, Cartier Area		
	1980	N.O.E.G.T.S. - General Construction Capability Map, Cartier	Map 5004	1:100 000
Sado, E. V., Carswell, B. F.	1987	Surficial Geology of Northern Ontario	OGS Map 2518	1:1 200 000
		MINERAL POTENTIAL MAPS		
Ayres, S. B., Lumbers, S. B., Milne, V. G., Robeson, D. W.	1976	Mineral Potential Map of Ontario, East Central Sheet	Map P.1099	1" = 16 miles
Meyn, H. D., Robertson, J. A.	1972-74	Iron Deposits of Ontario, East Central Sheet	Map P.1043	1" = 16 miles
Springer, J.	1977	Ontario Mineral Potential, Northern part of the Sudbury Sheet & part of the North Bay Sheet	OGS Map P.1512	1:250 000
		GEOCHEMICAL MAPS		
		No data available March 30, 1988		

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Adlington, R.	1982	Cartier Tp., Sudbury Data Series	OGS Map P.2974	1" = 1/4 mile
Burrows, A. G.	1929	Sudbury Basin Area	ODM AR 38, pt. 3	Map 38g
Burwasser, G. J.	1979	Quaternary Geology of the Sudbury Basin Area, District of Sudbury	OGS GR 181	
	1976	Quaternary Geology & Granular Resources of the Sudbury Basin Area	OGS OFR 5185	p. 88
Card, K. D., Innes, D. G.	1980	Geology of the Benny Area, District of Sudbury	OGS GR 206	Map 2435
	1978	Geology of the Benny Area, District of Sudbury	OGS OFR 5256	
Coleman, A. P.	1905	The Sudbury Nickel Field	BOM AR 14	pp. 95-96
Osborne, F. F.	1929	The Cartier-Stralak Area, District of Sudbury	ODM AR 38, pt. 7 Map 38H	pp. 52-68 1" = 1 mile
Thomson, J. E.	1956	Sudbury Basin Area	ODM Map 1956-1	1" = 1 mile
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Assad, R. J.	1955	The Formation of Certain Granite-like rocks in the footwall of the Sudbury Norite, Northwest of the Sudbury Basin	MP 2	p. 1
Card, K. D., Hutchinson, R. W.	1972	The Sudbury Structure; its Regional Geological Setting	GAC Spec. Paper 10	pp. 67-68

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Clauson, Victor	1947	Geology of the Sudbury Basin Area, Ontario, Canada Ph.D., Washington	MP 2	p. 14
Guy-Bray, J. V.	1972	New Developments in Sudbury Geology	GAC Spec. Paper 10	pp. 1-5
Hixon, H. W.	1904	Geology of the Sudbury District	The Mining & Engineering Journal	pp. 1022-1023
Holmes, T. C.	1936	The geology of Hart Township, Ontario, and adjacent Areas, Ph.D., U.C.	MP 2	p. 25
Popelar, J.	1972	Gravity interpretation of the Sudbury Area	GAC Spec. Paper 10	pp. 103-115
Schandle, E. L.	1982	The Feldspar Mineralogy of the Sudbury Complex	MP 2	
Sopher, S. R.	1961	Paleomagnetism Study of the Sudbury Irruptive	MP 2	
Vos, M. A.	1966	The petrology of some Quartz Diorites of the Sudbury Basin, Canada	MP 2	

NOTES AND ADDENDA

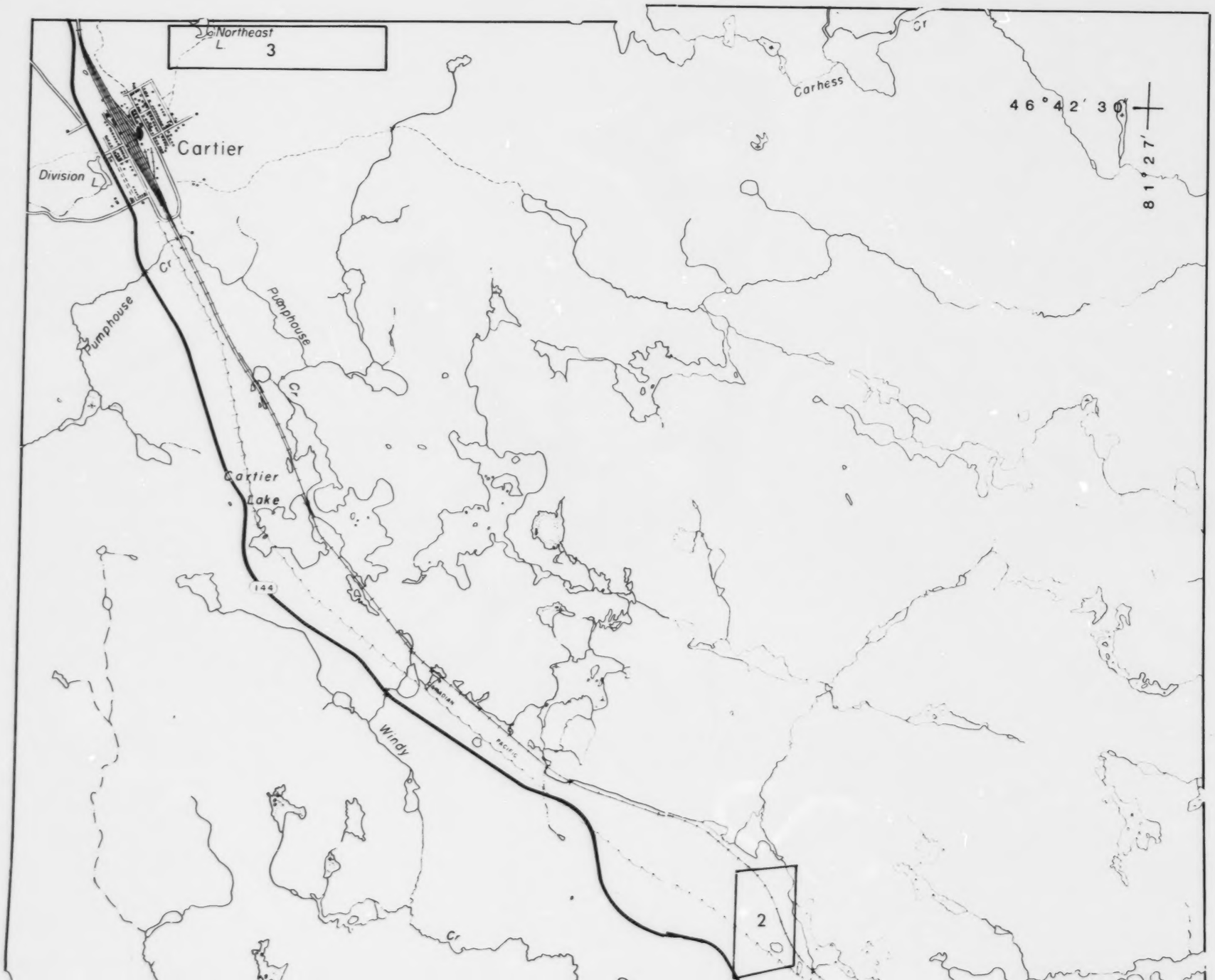
AERIAL PHOTOGRAPHS INDEX

Scale 1" = 1/4 mile

Sudbury Files

Year	Roll	Line	Number
1977	30	4628	31
	89	4629	68 - 71
	30	4628	26 - 29
	88	4627	23 - 27
1973	14	4629	113 - 119
	21	4628	151, 152
	23	4627	157
1959	11	4628	68 - 75
	65	4627	98 - 105

GDIF FORM NO.10



Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO

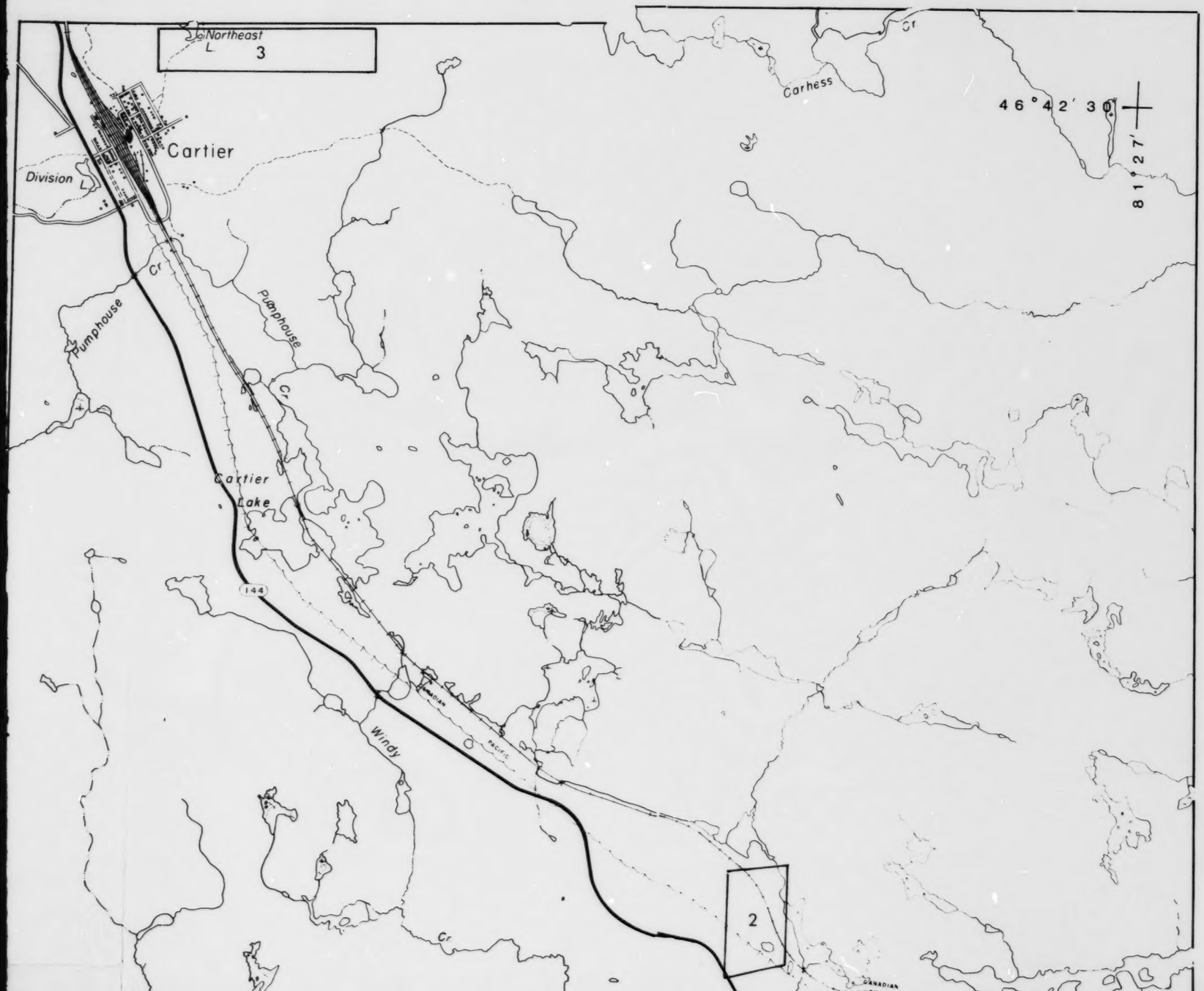
(Map 1 of 2)

CARTIER TOWNSI

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilom

Mile 0.5 0 0.5



Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 474

(Map 1 of 2)

CARTIER TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

(Map 1 of 2)

CARTIER TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Pumphouse Cr

Pumphouse Cr

Cartier Lake

144

Windy Cr

Canadian Pacific

Windy Cr

Windy Lake

2

1,4

5

81°33'

46°38'

EXPLORATION DATA FILE AREAS

■ 1 6 — Reference number is always inside work area outline. See listing in text pages.

□ x 4 — Small area of exploration

□ ★ — File covers whole township or area

GEOLOGICAL DATA INVENTORY FOLIO 474

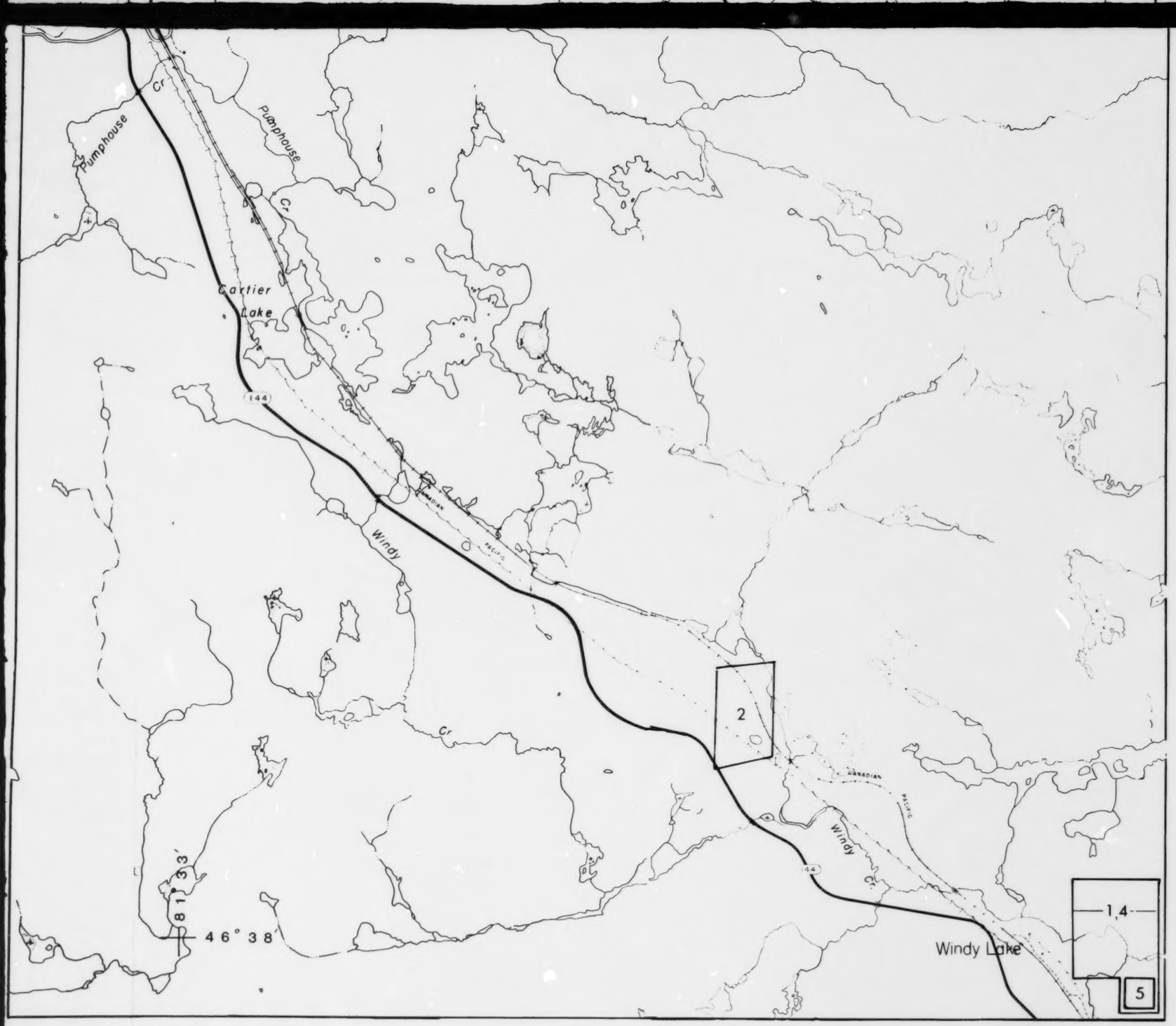
(Map 1 of 2)

CARTIER TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

- ■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.
- □ x ④ Small area of exploration
- □ ★ File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

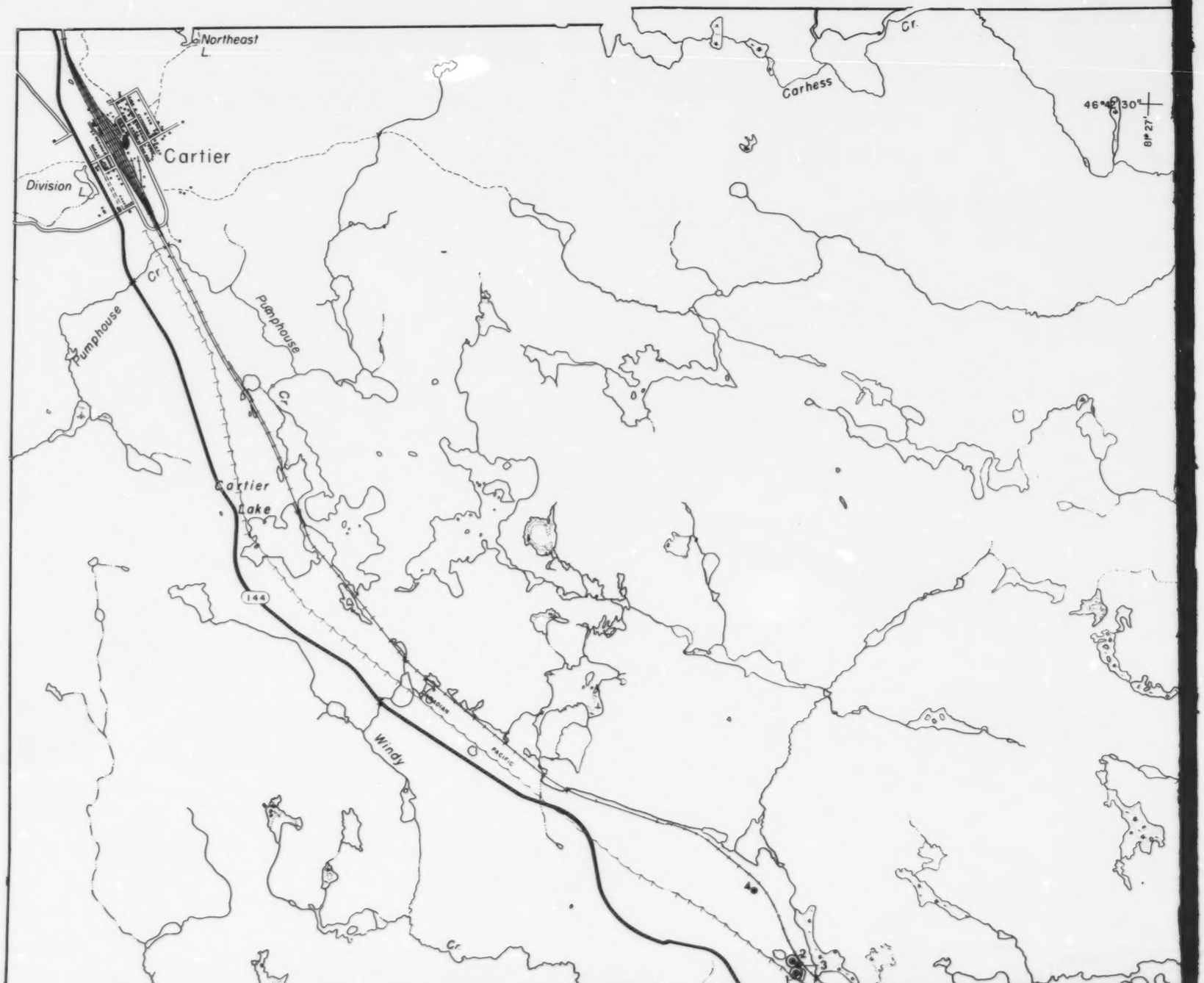
GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

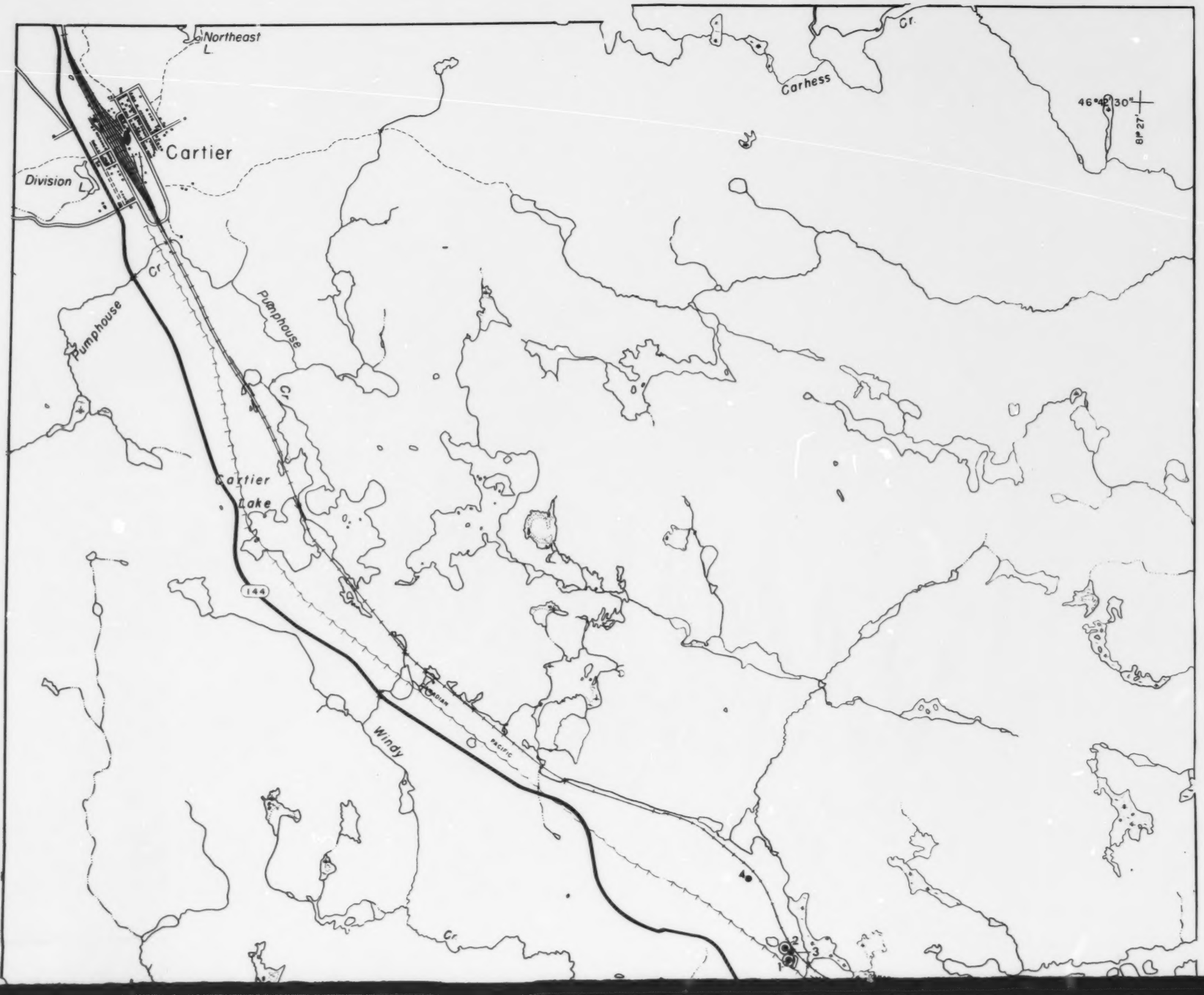
- ☐ ◆³ Geochemical sample site, with reference number
- ☐ ◆³ Area of geochemical sampling, with reference number
- ☐ ✳² Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☐ –AM– Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ –ARA– Airborne radiometric anomaly
- ☐ –M– Ground magnetic anomaly
- ☐ VL Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ –RA– Ground radiometric anomaly
- ☐ –IP– Induced polarization anomaly
- ☐ –SP– Self potential anomaly
- ☐ –AFMAG– Audio-frequency magnetic anomaly (total intensity)
- ☐ –R– Resistivity anomaly
- ☐ –GR– Gravity anomaly

MISCELLANEOUS DATA





Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 474

(Map 2 of 2)

CARTIER TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ☐ cp A. — Mineral occurrence at surface, with reference letter
- ☐ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized float with reference letter
- ☐ A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ■ •2 — Location of single drillhole, with reference number
- ■ ◎2 — Location of closely spaced group of drillholes, with

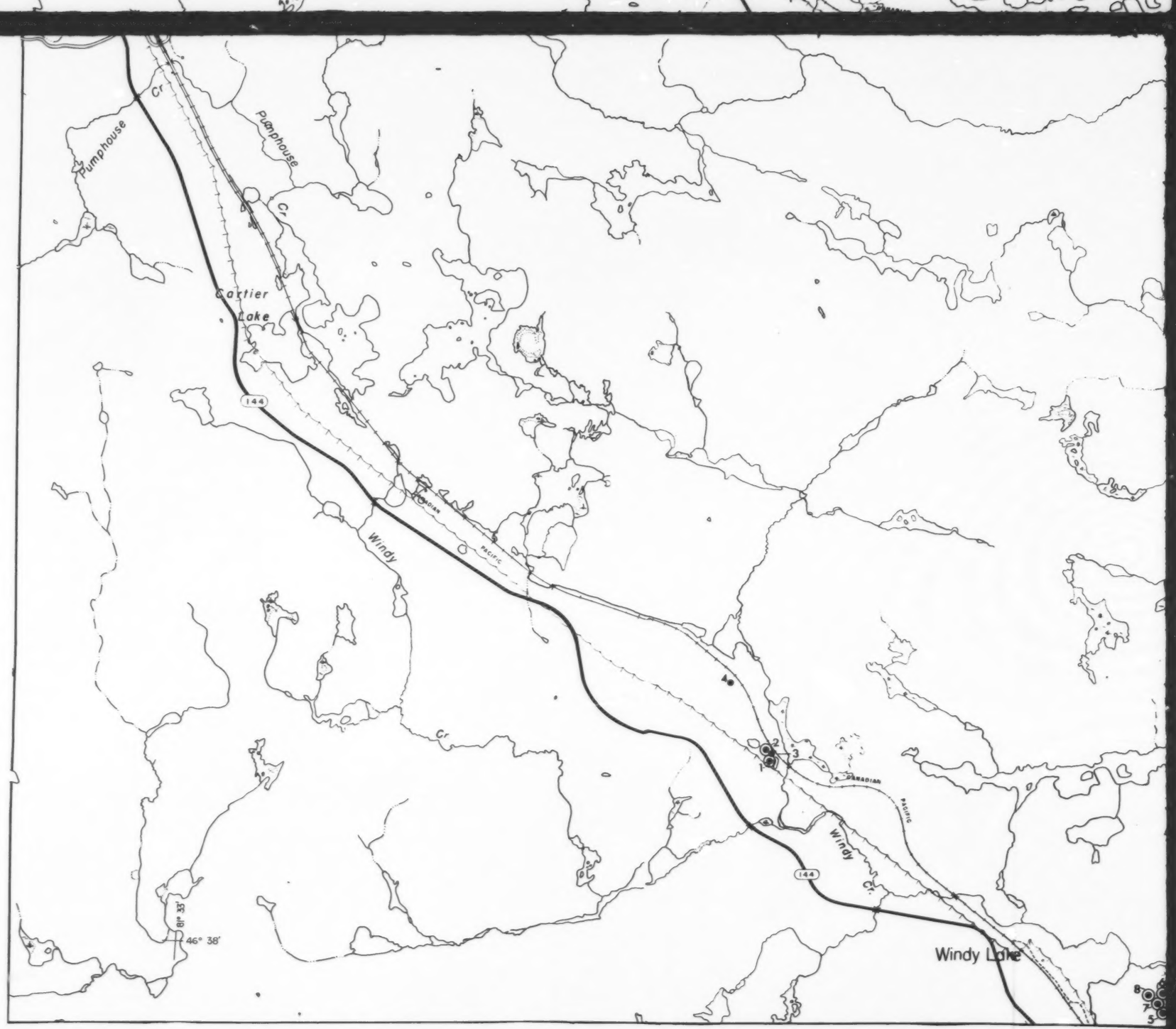
GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ ARA — Airborne radiometric anomaly
- ☐ M — Ground magnetic anomaly
- ☐ VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit
- ☐

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



CARTIER TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

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- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ■ ●² — Location of single drillhole, with reference number
- ■ ◉² — Location of closely spaced group of drillholes, with reference number
- □ ⊙² — Drillhole, exact location uncertain, with reference number
- □ — Property with underground drillholes in this general area, with reference number
- □ ○² — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕² — Reverse circulation drillhole; churn drilling, with reference number

Pumphouse Cr.

Cartier Lake

144

Windy Cr.

Windy Lake

CANADIAN PACIFIC

61° 35'

46° 38'